

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB 03/05277

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04L1/00 H04L1/06 H04B7/08

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>HORI S ET AL: "A NEW BRANCH METRIC GENERATION METHOD FOR SOFT-DECISION VITERBI DECODING IN CODED OFDM-SDM SYSTEMS EMPLOYING MLD OVER FREQUENCY SELECTIVE MIMO CHANNELS"</p> <p>IEICE TRANSACTIONS ON FUNDAMENTALS OF ELECTRONICS, COMMUNICATIONS AND COMPUTER SCIENCES, INSTITUTE OF ELECTRONICS INFORMATION AND COMM. ENG. TOKYO, JP, vol. 7, no. E85-A, July 2002 (2002-07), pages 1675-1684, XP001141747</p> <p>ISSN: 0916-8508</p> <p>the whole document</p> <p style="text-align: center;">--- -/--</p>	1-15



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

2 March 2004

Date of mailing of the international search report

16/03/2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	VAN ZELST A: "Space division multiplexing algorithms" PROCEEDINGS OF 10TH MEDITERRANEAN ELECTROTECHNICAL CONFERENCE, MELECON 2000, IEEE, vol. 3, 29 May 2000 (2000-05-29), pages 1218-1221, XP010518665 New York, US the whole document	1,7,12
A	XUEMEI OUYANG ET AL: "Optimal antenna diversity combining for IEEE 802.11a system" IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, AUG. 2002, IEEE, USA, vol. 48, no. 3, pages 738-742, XP002272132 ISSN: 0098-3063 the whole document	1-15